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## Combining data compression and encryption

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This paper appears in: **WESCON/94. 'Idea/Microelectronics'. Conference Record**

Publication Date: 27-29 Sept. 1994

On page(s): 404 - 409

Meeting Date: 09/27/1994 - 09/29/1994

Location: Anaheim, CA

INSPEC Accession Number: 4956281

Digital Object Identifier: 10.1109/WESCON.1994.403564

Posted online: 2002-08-06 19:09:40.0

## Abstract

As data communication becomes more pervasive and complex and the use of digital data spread, data security becomes a wider, more complex and more important problem. Encryption is an important tool to help improve data security. At first thought, data compression and data encryption are incompatible because encrypted data cannot be compressed by any known compression algorithm. Encryption can be applied after compression, but this requires additional processing or fixed library autosophy tree network data compression can combine encryption by using code key. Under appropriate conditions the compression ratio can be high, the encryption additional processing is required for encryption.

## Index Terms

## Inspec

## Controlled Indexing

[cryptography](#) [data communication](#) [data compression](#) [digital communication](#)

## Non-controlled Indexing

[data communication](#) [data compression](#) [data encryption](#) [data security](#) [digit](#)  
[library autosophy tree network](#) [library code key](#)

## Author Keywords

Not Available

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No references available on IEEE Xplore.

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As data communication becomes more pervasive and complex and the use of digital data evermore wide spread, data security becomes a wider, more complex and more important problem. Encryption can be an important tool to help improve data security. At first thought, data compression and data encryption are incompatible because encrypted data cannot be compressed by any known compression algorithms. Encryption can be applied after compression, but this requires additional processing or hardware. However, fixed library autosophy tree network data compression can combine encryption by using the library as the code key. Under appropriate conditions the compression ratio can be high, the encryption strong, and no additional processing is required for encryption

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